BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

e of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to bigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

ement Recorded in :

Description of work	Chainage	No	L	B	D	Qty
SRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil xcavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of lods complete as per specifications. MORTH / Chapter 3 as per Engineer In Charge						
Venkateshwara layout Main road Abbigere						
LHS	0	24	1	24	1.10	1.35	35.64
LHS	24	34	1	10	1.10	1.25	13.75
LHS	34	48	1	14	1.10	1.15	17.71
LHS	48	68	1	20	1.10	0.90	19.80
LHS	68	75	1	7	1.10	0.90	6.93
LHS	75	149	1	74	1.10	0.90	73.26
						Total	**167.09**
							Cum

Assistant Engineer 04/12/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison 2/12
BBMP, Bengaluru

Civil-Tech Consultants & Engineers Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

me of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to bbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

rement Recorded in :

Description of work	Chainage	No	L	B	D	Qty
KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. as per Engineer In Charge						
Venkateshwara layout Main road Abbigere PCC Concrete						
LHS	0	24	1	24	1.10	0.15	3.96
LHS	24	34	1	10	1.20	0.15	1.8
LHS	34	48	1	14	1.10	0.15	2.31
LHS	48	68	1	20	1.10	0.15	3.3
LHS	68	75	1	7	1.20	0.15	1.26
LHS	75	149	1	74	1.10	0.15	12.21
						Total	**24.84**
							Cum

Assistant Engineer
Ward No.12
BBMP, Bengaluru
05/12/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
5/12

Civil Tech Consultants & Engineers Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

me of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to bbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

rement Recorded in :

Description of work	Chainage		No	L	B	D	Qty
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. do- Wall & bottom thickness 15cm as per Engineer In Charge							
Venkateshwara layout Main road Abbigere Drain Bed and Wall Concrete							
Drain Bed	0	24	1	24	0.90	0.15	3.24
Wall			2	24	0.15	1.00	7.20
Drain Bed	24	34	1	10	0.90	0.15	1.35
Wall			2	10	0.28	0.55	3.08
Drain Bed	34	48	1	14	0.90	0.15	1.89
Wall			2	14	0.15	0.85	3.57
Drain Bed	48	68	1	20	0.90	0.15	2.70
Wall			2	20	0.15	0.85	5.10
Drain Bed	68	75	1	7	0.90	0.15	0.95
Wall			2	7	0.28	0.60	2.35
Drain Bed	75	149	1	74	0.90	0.15	9.99
Wall			2	74	0.15	0.60	13.32
						Total	**54.74**
							Cum

24/12/2020

Assistant Engineer
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
24/12

Civil Tech Consultants & Engineers Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

ame of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and final Bill

easurement Recorded in :

o	Description of work	No	L	B	D	Qty
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. as per Engineer In Charge					
	Venkateshwara layout Main road Abbigere "Drain steel"					
	Main rod 10 dia 200c/c 30mtr	150	2.25	0.62		209.25
		10	30.00	0.39		117.00
	30mtr	150	2.25	0.62		209.25
		10	30.00	0.39		117.00
	30mtr	150	2.25	0.62		209.25
		10	30.00	0.39		117.00
	30mtr	150	2.25	0.62		209.25
		10	30.00	0.39		117.00
	30mtr	150	2.25	0.62		209.25
		10	30.00	0.39		117.00
	10mtr	50	2.25	0.62		69.75
		10	10.00	0.39		39.00
					Total	1740.00
						1.74
						MT

24/12/2020

Assistant Engineer
Ward No.12
BBMP, Bengaluru

24/12

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

Tech Consultants & Engineers ★ Civil ★ Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
8	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 as per Engineer In Charge					
	Shettyhalli railwaygate to Abbigere Main Road					

Chainages		No	L	B1	B2	D	Qty
0.00	30.00	1	0.00	10.00	8.00		0.00
30.00	60.00	1	30.00	8.00	6.70		220.50
60.00	90.00	1	30.00	6.70	6.00		190.50
90.00	120.00	1	30.00	6.00	7.30		199.50
120.00	150.00	1	0.00	7.30	9.30		0.00
150.00	180.00	1	0.00	9.30	10.00		0.00
180.00	210.00	1	0.00	10.00	9.30		0.00
210.00	240.00	1	0.00	9.30	10.30		0.00
240.00	270.00	1	30.00	10.30	9.20		292.50
270.00	300.00	1	30.00	9.20	9.00		273.00
300.00	330.00	1	30.00	9.00	9.80		282.00
330.00	360.00	1	30.00	9.80	8.60		276.00
360.00	390.00	1	30.00	8.60	8.10		250.50
390.00	420.00	1	30.00	8.10	8.40		247.50
420.00	450.00	1	30.00	8.40	8.90		259.50
450.00	480.00	1	30.00	8.90	9.50		276.00
480.00	510.00	1	30.00	9.50	9.55		285.75
510.00	540.00	1	30.00	9.55	9.70		288.75
540.00	570.00	1	30.00	9.70	9.60		289.50
570.00	600.00	1	0.00	9.60	9.30		0.00
600.00	630.00	1	0.00	9.30	9.00		0.00
630.00	660.00	1	0.00	9.00	9.20		0.00
660.00	690.00	1	0.00	9.20	9.00		0.00
690.00	720.00	1	0.00	9.00	9.70		0.00
720.00	750.00	1	0.00	9.70	9.40		0.00
750.00	759.70	1	0.00	9.40	12.30		0.00
						Total	**3631.50**
							Sqm

Assistant Engineer 12/10/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
12/10

Tech Consultants & Engineers Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

Measurement Recorded in :

Sl. No	Description of work		No	L	B		D	Qty
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 as per Engineer In Charge							
	Shettyhalli railwaygate to Abbigere Main Road							
	Chainages		No	L	B1	B2	D	Qty
	0.00	30.00	1	0.00	10.00	8.00		0.00
	30.00	60.00	1	30.00	8.00	6.70		220.50
	60.00	90.00	1	30.00	6.70	6.00		190.50
	90.00	120.00	1	30.00	6.00	7.30		199.50
	120.00	150.00	1	0.00	7.30	9.30		0.00
	150.00	180.00	1	0.00	9.30	10.00		0.00
	180.00	210.00	1	0.00	10.00	9.30		0.00
	210.00	240.00	1	0.00	9.30	10.30		0.00
	240.00	270.00	1	30.00	10.30	9.20		292.50
	270.00	300.00	1	30.00	9.20	9.00		273.00
	300.00	330.00	1	30.00	9.00	9.80		282.00
	330.00	360.00	1	30.00	9.80	8.60		276.00
	360.00	390.00	1	30.00	8.60	8.10		250.50
	390.00	420.00	1	30.00	8.10	8.40		247.50
	420.00	450.00	1	30.00	8.40	8.90		259.50
	450.00	480.00	1	30.00	8.90	9.50		276.00
	480.00	510.00	1	30.00	9.50	9.55		285.75
	510.00	540.00	1	30.00	9.55	9.70		288.75
	540.00	570.00	1	30.00	9.70	9.60		289.50
	570.00	600.00	1	0.00	9.60	9.30		0.00
	600.00	630.00	1	0.00	9.30	9.00		0.00
	630.00	660.00	1	0.00	9.00	9.20		0.00
	660.00	690.00	1	0.00	9.20	9.00		0.00
	690.00	720.00	1	0.00	9.00	9.70		0.00
	720.00	750.00	1	0.00	9.70	9.40		0.00
	750.00	759.70	1	0.00	9.40	12.30		0.00
					-		Total	3631.50
								Sqm

23/10/2020

Assistant Engineer
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

23/10

Civil Consultants & Engineers Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : **Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.**

First and Part Bill

Measurement Recorded in :

	Description of work	Chainages		No	L	B1	B2	D	Qty
6	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision as per Engineer In Charge								
	Shettyhalli railwaygate to Abbigere Main Road								
		0.00	30.00	1	30.00	10.00	8.00		270.00
		30.00	60.00	1	30.00	8.00	6.70		220.50
		60.00	90.00	1	30.00	6.70	6.00		190.50
		90.00	120.00	1	30.00	6.00	7.30		199.50
		120.00	150.00	1	30.00	7.30	9.30		249.00
		150.00	180.00	1	30.00	9.30	10.00		289.50
		180.00	210.00	1	30.00	10.00	9.30		289.50
		210.00	240.00	1	30.00	9.30	10.30		294.00
		240.00	270.00	1	30.00	10.30	9.20		292.50
		270.00	300.00	1	30.00	9.20	9.00		273.00
		300.00	330.00	1	30.00	9.00	9.80		282.00
		330.00	360.00	1	30.00	9.80	8.60		276.00
		360.00	390.00	1	30.00	8.60	8.10		250.50
		390.00	420.00	1	30.00	8.10	8.40		247.50
		420.00	450.00	1	30.00	8.40	8.90		259.50
		450.00	480.00	1	30.00	8.90	9.50		276.00
		480.00	510.00	1	30.00	9.50	9.55		285.75
		510.00	540.00	1	30.00	9.55	9.70		288.75
		540.00	570.00	1	30.00	9.70	9.60		289.50
		570.00	600.00	1	30.00	9.60	9.30		283.50
		600.00	630.00	1	30.00	9.30	9.00		274.50
		630.00	660.00	1	30.00	9.00	9.20		273.00
		660.00	690.00	1	30.00	9.20	9.00		273.00
		690.00	720.00	1	30.00	9.00	9.70		280.50
		720.00	750.00	1	30.00	9.70	9.40		286.50

Civil-Tech Consultants & Engrs Bangalore

30/12/2020

30/12

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

Measurement Recorded in :

Description of work		No	L	B1	B2	D	Qty
Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required width, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) as per Engineer In Charge								
Shettyhalli railwaygate to Abbigere Main Road								
		0.00	30.00	1	30.00	10.00	8.00	0.04	10.80
		30.00	60.00	1	30.00	8.00	6.70	0.04	8.82
		60.00	90.00	1	30.00	6.70	6.00	0.04	7.62
		90.00	120.00	1	30.00	6.00	7.30	0.04	7.98
		120.00	150.00	1	30.00	7.30	9.30	0.04	9.96
		150.00	180.00	1	30.00	9.30	10.00	0.04	11.58
		180.00	210.00	1	30.00	10.00	9.30	0.04	11.58
		210.00	240.00	1	30.00	9.30	10.30	0.04	11.76
		240.00	270.00	1	30.00	10.30	9.20	0.04	11.70
		270.00	300.00	1	30.00	9.20	9.00	0.04	10.92
		300.00	330.00	1	30.00	9.00	9.80	0.04	11.28
		330.00	360.00	1	30.00	9.80	8.60	0.04	11.04
		360.00	390.00	1	30.00	8.60	8.10	0.04	10.02
		390.00	420.00	1	30.00	8.10	8.40	0.04	9.90
		420.00	450.00	1	30.00	8.40	8.90	0.04	10.38
		450.00	480.00	1	30.00	8.90	9.50	0.04	11.04
		480.00	510.00	1	30.00	9.50	9.55	0.04	11.43
		510.00	540.00	1	30.00	9.55	9.70	0.04	11.55
		540.00	570.00	1	30.00	9.70	9.60	0.04	11.58
		570.00	600.00	1	30.00	9.60	9.30	0.04	11.34
		600.00	630.00	1	30.00	9.30	9.00	0.04	10.98
		630.00	660.00	1	30.00	9.00	9.20	0.04	10.92
		660.00	690.00	1	30.00	9.20	9.00	0.04	10.92
		690.00	720.00	1	30.00	9.00	9.70	0.04	11.22
		720.00	750.00	1	30.00	9.70	9.40	0.04	11.46
		750.00	759.70	1	9.70	9.40	12.30	0.04	4.21
Shettyhalli main road to shattyhalli Aralimarada Aswathkatte									
		0	15	1	15.00	8.20	8.20	0.04	4.92
		15	30	1	15.00	8.20	8.20	0.04	4.92
		30	45	1	15.00	8.20	8.20	0.04	4.92
		45	60	1	15.00	8.20	7.00	0.04	4.56

E.E. (D.D.)

E.E. (D.D.)

E.E. (D.D.)

29/01/2021

29/12

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	60	75	1	15.00	7.00	6.20	0.04	3.96
	75	90	1	15.00	6.20	6.15	0.04	3.71
	90	105	1	15.00	6.15	6.00	0.04	3.65
	105	120	1	15.00	6.00	5.40	0.04	3.42
	120	135	1	15.00	5.40	5.90	0.04	3.39
	135	150	1	15.00	5.90	5.60	0.04	3.45
	150	165	1	15.00	5.60	5.70	0.04	3.39
	165	180	1	15.00	5.70	5.50	0.04	3.36
	180	195	1	15.00	5.50	5.90	0.04	3.42
	195	211	1	16.00	5.90	8.00	0.04	4.45
							Total	327.50
								Cum

29/01/2021

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

29/01

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BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

e of work : Annual Maintenance and Re-Asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding area in Ward No.12 Shettyhalli Sub Division.

First and Part Bill

tent Recorded in :

Description of work	Chainages	No	L	B	D	Qty
RRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on						
uminous Surface/Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick						
ding reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass						
ds as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes						
plete as per specifications. MORTH Specification No. 803 as per Engineer In Charge						
ettyhalli railwaygate to Abbigere Main Road						
	0.00	30.00	2	30.00	0.15	9.00
	30.00	60.00	2	30.00	0.15	9.00
	60.00	90.00	2	30.00	0.15	9.00
	90.00	120.00	2	30.00	0.15	9.00
	120.00	150.00	2	30.00	0.15	9.00
	150.00	180.00	2	30.00	0.15	9.00
	180.00	210.00	2	30.00	0.15	9.00
	210.00	240.00	2	30.00	0.15	9.00
	240.00	270.00	2	30.00	0.15	9.00
	270.00	300.00	2	30.00	0.15	9.00
	300.00	330.00	2	30.00	0.15	9.00
	330.00	360.00	2	30.00	0.15	9.00
	360.00	390.00	2	30.00	0.15	9.00
	390.00	420.00	2	30.00	0.15	9.00
	420.00	450.00	2	30.00	0.15	9.00
	450.00	480.00	2	30.00	0.15	9.00
	480.00	510.00	2	30.00	0.15	9.00
	510.00	540.00	2	30.00	0.15	9.00
	540.00	570.00	2	30.00	0.15	9.00
	570.00	600.00	2	30.00	0.15	9.00
	600.00	630.00	2	30.00	0.15	9.00
	630.00	660.00	2	30.00	0.15	9.00
	660.00	690.00	2	30.00	0.15	9.00
	690.00	720.00	2	30.00	0.15	9.00
	720.00	750.00	2	30.00	0.15	9.00
	750.00	759.70	2	9.70	0.15	2.91
	Centreline marking		170	3.00	0.10	51.00

9/2

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